



Bill of Materials for the FUSB15201DUAL60WGEVB Evaluation Board

Designator(Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
								Yes	Yes
C1 C4 C7	3	Nippon SMT Bulk Cap, 6.3mm-10mm Dia	100uF		Bulk SMT 6mm-10mm	Panasonic	EEHZT1H101P	Yes	Yes
C2 C3	2	Generic 0603 SMD Capacitor	DNP		0603			Yes	Yes
C5 C60	2	CAP CER 1UF 10V X7S 0402	1uF	10V	0402	Murata	GCM155C71A105KE3	Yes	Yes
C6 C8	2	Generic 0603 SMD Capacitor	1nF		0603	Murata	GCM188R71H102KA37J	Yes	Yes
C9 C24 C27	3	CAP CER 0.1UF 50V X7R 0402	0.1uF	50V	0402	Murata	GCM155R71H104KE	Yes	Yes
C10 C11 C12 C13 C14 C20 C21 C28 C30 C32 C34 C35 C37 C61 C62 C63	16	Generic 0603-1210 SMD Capacitor	10uF		1210	Murata	GCM32EC71H106KA03K	Yes	Yes
C15 C16 C26 C29 C31 C33 C38	7	1uF X5R 35V	1uF	35V	0402	Murata	GRM155R6YA105KE	Yes	Yes
C17 C18 C19 C22	4	Generic 0402 SMD Capacitor	390pF		0402	Murata	GCM155R71H391KA37D	Yes	Yes
C23 C25 C39 C41 C52 C56 C36	6 1	Generic 0402 SMD Capacitor CAP CER 2.2uF 16V X5R 0402	10nF 2.2uF		0402 0402	Murata Murata	GCM155R71H103KA55D GRM155R61C225KE1	Yes Yes	Yes Yes
C40 C42 C57 C58	4	Generic 0603 SMD Capacitor	0.1uF		0603	Murata	GCM188R71H104KA57D	Yes	Yes
C43 C46	2	Generic 0402 SMD Capacitor	10pF		0402	Murata	GCM1555C1H100JA16D	Yes	Yes
C44 C48	2	Generic 0402 SMD Capacitor	3300pF		0402	Murata	GCM155R71H332KA37D	Yes	Yes
C45 C47 C49 C50 C51 C54	6	Generic 0805 SMD Capacitor	4.7uF		0805	Murata	GCM21BC71A475KA73L	Yes	Yes
C53 C55 C59	3	Generic 0603 SMD Capacitor	1uF		0603	Murata	GRT188R61H105KE13D	Yes	Yes
D1 D2	2	ESD Protection Diode Ultra Low Capacitance	SZESD7241		X2DFN2	ON Semiconductor	SZESD7241N2	Yes	Yes
D3 D4 D5 D6 D7 D8 D9 D10	8	ESD Protection Diode	SZESD7361		SOD-923	ON Semiconductor	SZESD7361P2T5G	Yes	Yes
D11	1	Generic SMB Bi-Directional TVS Diode	SZ1SMB30CAT3G		SMB	Littelfuse	SZ1SMB30CAT3G	Yes	Yes
D12	1	Generic SOD-323 Zener Diode	SZMM3Z18VT1G		SOD-323	ON Semiconductor	SZMM3Z18VT1G	Yes	Yes
FB1 FB2	2	Ferrite Bead 50 Ohm 12A	50 Ohm	12A	1206	Murata	BLM31SN500S21	Yes	Yes
J1 J2	2	USB Type-C Connector	DX07S016JA1R1500		USB3 C PD	DAE	DX07S016JA1R1500	Yes	Yes
J3	1	Standard 1x5pin 100mil Pitch Header	613 005 111 21		1x5pin 100mil	Würth Elektronik	613 005 111 21	Yes	Yes
J4	1	2pin screw SIDE ENT 2.54MM PCB	282834-2		2pin Screw 2.54mm	TE Connectivity	282834-2	Yes	Yes
J5	1	Standard Arm Cortex Debug Connector	FTSH-105-01-F-DV-K		2x5pin 50mil Cortex	Samtec	FTSH-105-01-F-DV-K	Yes	Yes
L1 L2	2	Panasonic Auto Shielded 17A 6.6mohm	3.3uH	17A	10.9x10mm	Panasonic	ETQP6M3R3YLC	Yes	Yes
L3	1	Generic 7x7mm Inductor	160nH		7x7mm	Coilcraft	XAL5030-161ME	Yes	Yes
Q1 Q2 Q3 Q4	4	Generic u8FL DFN-5 N-Channel Power MOSFET	NVTF55C471NL		u8FL	ON Semiconductor	NVTF55C471NLTAG	Yes	Yes
Q5 Q6 Q7 Q8	4	Generic u8FL DFN-5 N-Channel Power MOSFET	NVTF55C460NL		u8FL	ON Semiconductor	NVTF55C460NLWFTA	Yes	Yes
Q9	1	Generic SO8-FL DFN-5 P-Channel Power MOSFET	NVMF55A140PLZ		SO8-FL	ON Semiconductor	NVMF55A140PLZ	Yes	Yes
R1 R3 R13	3	Generic 0402 SMD Resistor	DNP		0402			Yes	Yes
R2 R4 R5 R6 R32 R35 R42 R43 R44 R45 R47 R50 R55 R59 R60 R61 R65 R66 R69 R70 R74	21	RES SMD 0 OHM JUMPER 1/16W 0402	0	1%	0402	Vishay Dale	CRCW04020000Z0ED	Yes	Yes
R7 R18	2	RES SMD 100 OHM 1% 1/16W 0402 3mOhm 0508 Reverse Geometry Sense	100	1%	0402	Vishay Dale	CRCW0402100RFKED KRL2012E-M-R003-F-T5	Yes Yes	Yes Yes
R8 R9 R15 R16 R23 R24	6	Resistor	0.003		0508	Susumu		Yes	Yes
R10 R11	2	Generic 0805 SMD Resistor	DNP		0805			Yes	Yes
R12 R14	2	Generic 0805 SMD Resistor	1	5%	0805	Vishay	CRCW08051R00JNEAHP	Yes	Yes
R17 R27 R36	3	RES SMD 100K OHM 1% 1/16W 0402	100K	1%	0402	Vishay Dale	CRCW0402100KFED	Yes	Yes
R19 R20 R21 R22 R30 R31 R37 R38 R63 R64 R71 R72	12	Generic 0402 SMD Resistor	10		0402	Vishay	CRCW040210R0JNTD	Yes	Yes
R25 R26 R41 R46	4	RES SMD 20K OHM 1% 1/16W 0402	20K	1%	0402	Vishay Dale	CRCW040220K0KFED	Yes	Yes

R28 R29	2	RES SMD 4.99K OHM 1% 1/16W 0402	4.99K	1%	0402	Vishay Dale	CRCW04024K99FKED	Yes	Yes
R33 R40	2	Generic 0402 SMD Resistor	20.5k	1%	0402	Vishay	CRCW040220K5FKED	Yes	Yes
R34 R39	2	Generic 0402 SMD Resistor	90.9k	1%	0402	Vishay	CRCW040290K9FKED	Yes	Yes
R48	1	3 Position Inline Terminal Option Using 0 Ohm 402 Resistor	0	1%	0402	Vishay Dale	CRCW04020000Z0ED	Yes	Yes
R49 R51	2	Generic 0402 SMD Resistor	14k	1%	0402	Vishay	CRCW040214K0FKED	Yes	Yes
R52 R54 R56 R58 R67 R73	6	Generic 0402 SMD Resistor	1		0402	Vishay	CRCW04021R00JNED IF	Yes	Yes
R53	1	RES SMD 26.1K OHM 1% 1/16W 0402	26.1K	1%	0402	Vishay Dale	CRCW040226K1FKED	Yes	Yes
R57 R62 R68	3	Generic 0402 SMD Resistor	10k	1%	0402	Vishay	CRCW040210K0FKED	Yes	Yes
R75	1	Generic 0603 SMD Resistor	10k	1%	0603	Vishay	CRCW060310K0FKEA	Yes	Yes
R76	1	Generic 1206 SMD Resistor	1k		1206	Vishay	CRCW12061K00JNEA	Yes	Yes
RT1 RT2	2	Generic 0402 NTC Thermistor	THERMISTOR		0402	Panasonic	ERTJ0ER104	Yes	Yes